

*Abstract*

Heat exchanger having a plurality of heat transfer tubes arranged substantially in the shape of a helicoidal tube with the individual coils running parallel to one another, and a plurality of fins secured to the external surfaces of the heat transfer tubes and arranged perpendicular to the tube to extend outwardly therefrom. The first working fluid flows inside the heat transfer tubes, and air flows through a passage defined between the adjacent fins and at right angles to the axis of each heat transfer tube. The blower is placed co-axial with the helicoid's axis to further enhance the heat exchange.